

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-22. (Cancelled)

23. (Currently Amended) A rotary ring system for use in a scale reading apparatus comprising:

~~a continuous~~ an unbroken rotary ring, provided with scale marks on a surface thereof, defining a pattern and readable by a readhead of the apparatus;

at least one intermediate member;

wherein the at least one intermediate member is fitted between the unbroken rotary ring and ~~the a part of the a~~ machine on which the rotary ring is mounted.

24. (Currently Amended) A The rotary ring system according to claim 23 wherein applying a force to one of the at least one intermediate member and the unbroken rotary ring secures the unbroken rotary ring in place.

25. (Currently Amended) A The rotary ring system according to claim 24 wherein the force adjusts the effective radius of the unbroken rotary ring.

26. (Currently Amended) A The rotary ring system according to claim 24 wherein said the force is applied to said the at least one intermediate member.

27. (Currently Amended) A The rotary ring system according to claim 24 wherein the force is an axial force.

28. (Currently Amended) A The rotary ring system according to claim 26 wherein applying a force to the at least one intermediate member causes deformation of the at least one intermediate member.

29. (Currently Amended) A The rotary ring system according to claim 26 wherein retaining means are provided to retain the at least one intermediate member on ~~the a~~ rotary

part of the machine and wherein said the force is applied to the at least one intermediate member by said the retaining means.

30. (Currently Amended) A The rotary ring system according to claim 26 wherein there is more than one than one intermediate member and wherein the force is applied to every intermediate member.

31. (Currently Amended) A The rotary ring system according to claim 27 wherein the at least one intermediate member is provided with at least one tapered surface such that when the unbroken rotary ring and the at least one intermediate member are mounted on a part of the machine at least one tapered surface of the at least one intermediate member is in contact with a tapered surface of one or both of the rotary part of the machine and the unbroken rotary ring.

32. (Currently Amended) A The rotary ring system according to claim 31 wherein an axial force may be applied to one of the at least one intermediate member and the unbroken rotary ring such that the tapered surface of the at least one intermediate member and the tapered surface of one or both of the part of the machine and the unbroken rotary ring move relative to one another, causing adjustment in the effective radius of the unbroken rotary ring.

33. (Currently Amended) A The rotary ring system according to claim 23 wherein the intermediate ring system is a continuous an unbroken ring.

34. (Currently Amended) A The rotary ring system according to claim 23 wherein the intermediate ring system comprises a split ring.

35. (Currently Amended) A The rotary ring system according to claim 23 wherein the intermediate ring system comprises a plurality of segments.

36. (Currently Amended) A The rotary ring system according to claim 23 wherein the at least one intermediate member is flexible.

37. (Currently Amended) A The rotary system according to claim 23 wherein the at least one intermediate member comprises a plurality of ball shaped members.

38. (Currently Amended) A The rotary ring system according to claim 23 wherein the at least one intermediate member comprises a plurality of rollers.

39. (Currently Amended) A The rotary ring system according to claim 23 wherein the at least one intermediate member comprises a spring system.

40. (Currently Amended) A The rotary ring system according to claim 23 wherein anchor means are provided to prevent rotation of the unbroken rotary ring relative to the part of the machine.

41. (Currently Amended) A rotary ring system for use in a scale reading apparatus comprising:

a-continuous an unbroken rotary ring, provided with scale marks on a surface thereof, defining a pattern and readable by a readhead of the apparatus;

at least one intermediate member;

wherein the at least one intermediate member is fitted between the unbroken rotary ring and the a part of the a machine on which the rotary ring is mounted;

and wherein applying a force to said the at least one intermediate member adjusts the effective radius of the unbroken rotary ring.

42. (Currently Amended) A rotary ring system for use in a scale reading apparatus comprising:

a-continuous an unbroken rotary ring, provided with scale marks on a surface thereof, defining a pattern and readable by a readhead of the apparatus;

at least one intermediate member;

wherein the at least one intermediate member is fitted between the unbroken rotary ring and the a part of the a machine on which the unbroken rotary ring is mounted;

and wherein the at least one intermediate member is compliant.

43. (Currently Amended) ~~A~~ The rotary ring system according to claim 42 wherein
the at least one intermediate member is tangentially compliant.

44. (Currently Amended) ~~A~~ The rotary ring system according to claim 42 wherein
anchor means are provided to prevent rotation of the unbroken rotary ring relative to the part
of the machine.